

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-10 17:45:50

Date of Next Testing: 2024-09-29 17:45:50

 Product Name: **Imidazole**

CAS Number: 288-32-4

Specifications & Purity: 99.5% , for buffer

Lot #: I2221392

 SKU #: **I108704**
Analysis: **132208**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
PH(25 °C, 50 mg/mL in Water)	9.5-11	10.50
Cobalt(Co)	0-5 (ppm)	2.20 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.05 %
(Pb)Lead	0-5 (ppm)	2.30 ppm
Manganese(Mn)	0-5	3.10
Magnesium(Mg)	0-5 (ppm)	2.90 ppm
Melting point	86-92 (°C)	91.93000 °C
Copper(Cu)	0-5 (ppm)	1.10 ppm
Sulfate(SO42-)	0-50 (ppm)	10.00 ppm
Chromium(Cr)	0-5 (ppm)	2.50 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	12.00 ppm
Chloride (Cl-)	0-50 (ppm)	22.00 ppm
Calcium(Ca)	0-10 (ppm)	5.10 ppm
Purity(GC)	99.5-100 (%)	99.86 %
Zinc(Zn)	0-5 (ppm)	3.20 ppm
Iron(Fe)	0-5 (ppm)	1.60 ppm
Potassium(K)	0-50 (ppm)	18.00 ppm
Nickel(Ni)	0-5 (ppm)	3.10 ppm
UV Absorbance 260nm	0-0.01	0.01
UV Absorbance 280nm	0-0.01	0.01
Appearance (I108704)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
pKa	6.8	6.8

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Parameter	Limit Values	Result
λ ,0.1 M in H ₂ O	Pass	Pass

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager